4	determining sign bits associated with the plurality of resultant signal values; and
5	providing the sign bits as the pseudo-random number sequence.
1	3. (Previously Amended) The method of claim 6, wherein the generating of the
2	pseudo-random number sequence comprises:
3	computing a mean signal value for a first region of the data set;
4	computing a mean signal value for a second region of the data set;
5	performing an arithmetic operation on the mean signal value of the first region and the
5	mean signal value of the second region to produce a resultant signal value;
7	determining a sign bit of the resultant signal value; and
3	providing the sign bit as a portion of the pseudo-random number sequence.
l	4. The method of claim 3, wherein the performing of the arithmetic operation
2	includes computing a difference between the mean signal value of the first region and the mean
3	signal value of the second region.
1	5. The method of claim 4, wherein each region of the data set includes a predefined
2	image within the frame.
1	6. (Previously Amended) A method for improving detection of a watermark,
2	comprising:
3	generating a pseudo-random sequence of numbers based on data associated with a data
4	set;
5	producing the watermark by (i) computing a data block having an amplitude, (ii)
5	computing a secondary data set, each pixel of the secondary data set having a predetermined
7	signal value, and (iii) multiplying the pseudo-random number sequence, the amplitude and the
3	secondary data set to produce a result operating as the watermark; and
9	embedding the watermark into the data set.
1	7. The method of claim 6, wherein the amplitude for the watermark is computed
2	through adjustment of a plurality of parameters including frame differences.

8. A method for extracting a watermark from a video sequence, comprising:
042390.P7032 -2- WWS/crr
App. No. 09/288,836 Filed: 4/8/99

1

receiving the video sequence having a first frame embedded with a watermark; and 2 recovering the watermark within the first frame through analysis of intensity differences 3 between the first frame of the video sequence and a second frame of the video sequence. 4 9. The method of claim 8, wherein prior to recovering the watermark, the method 1 2 further comprises: computing a pseudo-random number sequence using the random number generator seed. 3 The method of claim 9, wherein the recovering of the watermark includes: 10. 1 computing a sum for products of (i) differences between watermarked intensities of the 2 first frame and the second frame of the video sequence and (ii) corresponding elements of the 3 4 pseudo-random number sequence. The method of claim 10, wherein the recovering of the watermark further 1 11. 2 includes: computing a products of (i) a mean value for the differences between watermarked 3 intensities of the first frame and the second frame of the video sequence and (ii) a sum of the 4 5 pseudo-random number sequence. 1 12. The method of claim 11, wherein the recovering of the watermark further 2 includes: subtracting (i) the product of the mean value for the differences between watermarked 3 4 intensities of the first frame and the second frame of the video sequence and the sum of the pseudo-random number sequence from (ii) the sum of products of the differences between 5 watermarked intensities of the first frame and the second frame of the video sequence and the 6 7 corresponding elements of the pseudo-random number sequence. 1 13. Cancelled. 1 14. Cancelled.

042390.P7032 -3- WWS/crr App. No. 09/288,836 Filed: 4/8/99

1

15.

Cancelled.